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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,418	03/30/2004	Kerstin Mothes	543822005000	1266
25227	7590 08/09/2006		EXAMINER	
	N & FOERSTER LLP	SMITH, BRADLEY		
1650 TYSONS BOULEVARD SUITE 300			ART UNIT	PAPER NUMBER
MCLEAN,	VA 22102		2891	
			DATE MAILED: 08/09/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Community	10/812,418	MOTHES ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bradley K. Smith	2891			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  B6(a). In no event, however, may a reply be time  rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 06 Ju	ne 2006.				
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·	vance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-5 is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	5)	atent Application (PTO-152)			

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1- 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Curtis et al. (US Patent 6,387,764). Curtis et al. disclose forming a mask on a substrate forming at least one trench in the substrate, selectively depositing a first insulation layer to at least partially fill the one trench in the substrate, with the insulation material in the presences of the mask, applying a second insulation material in order to fill the trench (see figure 1 column lines 45-57 and figure 1). With regards to claim 2 Curtis et al. disclose the substrate is silicon and the mask silicon nitride and the first and second are made of silicon oxide. With respect to claim 3, Curtis et al. disclose compacting (or densifying) the thermal oxide liner (see column 8 lines 22-50). With regards to claim 4, Curtis disclose the use of high density plasma to deposit the second insulation layer (see column 2 lines 10-20). With regards to claim 5, Curtis et al. disclose planarizing the dielectric (typically CMP is used to planarize) and Curtis disclose using CMP (see column 15 lines 23-36).

## Response to Arguments

Art Unit: 2891

Applicant's arguments filed 5/5/06 have been fully considered but they are not persuasive. The applicant contends that Curtis fails to disclose that the oxide is formed while the mask is present. Figure one shows that the mask and the oxide liner are present at the same time. With regards to the second argument that the oxide liner is not the same as the applicants first insulation material, the examiner would like to note that it is a dielectric material and fills at least a bottom part of the trench. Therefore it reads on the claimed subject matter.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley K. Smith whose telephone number is 571-272-1884. The examiner can normally be reached on 10-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1/000.

Bradley K Smith Primary Examiner Art Unit 2891